

DEPARTMENT OF PUBLIC WORKS

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January 26, 2005

TO: Area Plumbing Contractors  
FROM: Martha Tasker, Utilities Director  
SUBJECT: Water Meter Setting Standards  
Approved Materials List  
Recommended Irrigation Details

Attached to this memo are standard drawings showing details of corporation stops, curb cocks, meter tiles, meter setters, meter box covers, meter extension rings, valves, roadway boxes, placement of meter boxes/lids in pavement, etc. This revised set of standards supersedes previous Meter Settings Standards, dated September 1, 2004.

### RESIDENTIAL WATER METERS

All new residential meter settings shall be located outside of private residences on City right-of-way per the following policy:

#### New Residential Water Meter Policy

- ◆ All new residential meter setter/pits to be located in City right-of-way.
- ◆ The City Water Utility Division shall be responsible for installing piping from the curb stop to the meter setter/pit.
- ◆ Before the new water service is turned on the customer shall pay a new water service fee of \$150.00 to Building Services as part of the building permit fee for the new residences.
- ◆ The City Water Utility Division shall coordinate the location of the meter pit with the customer.
- ◆ The plumbing inspector for the City shall approve all plumbing on the private property served by the water service line prior to the service being turned on.

It is the intent of the Public Works Utilities Division to relocate all existing water meters from inside private residences to the City right-of-way. This relocation process will take place over the next several years. As customers or property owners replace water service lines, the water utility shall complete the maintenance as per the current Salina Code.

The current Salina Code (section 41.28(e)) defines that maintenance of all existing water service lines (including those originally paid for and owned by the property owner) shall be performed by the water utility at the water utility's expense. The maintenance obligation shall cover the water service line from the water main through the curb cock if the meter is set on private property or through the meter set if the meter is set on public property.

Existing water meters shall be relocated from the inside of private residences onto City right-of-way per the following policy:

#### Existing Residential Water Meter Policy

- ◆ Relocate existing water meter from inside private residences to City right-of-way.
- ◆ The City Water Utility Division shall be responsible for installing the water service line from either the water main or curb stop to the meter setter/pit.
- ◆ The cost shall be at the City Water Utility Division's expense.
- ◆ The City Water Utility Division shall coordinate the location of the meter pit with the customer.
- ◆ The customer shall be responsible for installing the water service from the meter pit to inside the private residence.
- ◆ The customer shall be responsible for contracting with a licensed plumber to remove the meter and reconnect piping inside the residence.
- ◆ The meter shall be returned to the City Water Utility Division.
- ◆ The plumbing inspector for the City shall approve all plumbing on the private property served by the water service line prior to the service being turned on.

The above policy shall apply when a customer requests that the water meter be relocated from the inside of the residence to the City right-of-way.

#### COMMERCIAL /INDUSTRIAL WATER METERS

All commercial/industrial meter settings shall be located outside the building on city right-of-way, unless approved by the Utilities Director for inside meter set.

- ◆ Inside meter setters and multiple meter settings shall be approved by the Utilities Director prior to installation. When a meter is located inside the building, copper or ductile iron waterline must be installed from the building to the curb stop. Plastic piping will not be allowed in front of the meter.
- ◆ Meters can not be installed in locations that are not readily accessible. The meter must not be located in crawl spaces, above ceilings, behind locked doors, etc. Ready access is not available if maintenance or inspection of the meter requires obstacle removal, the use of portable ladders or chairs, panel removal, etc.

There shall be no connection, valves, drains, backflow valves or other attachments located inside the meter pit.

If you have any questions concerning the attached standards or the approved materials listings for the above items, please contact me at (785) 309-5725.

Attachments: Approved Materials List  
Water Meter Setting Standards  
Recommended Irrigation Details

Effective Date: February 7, 2005

## Approved Materials List

### ITEM AND STOCK NUMBERS

#### CURB AND ROADWAY VALVE BOXES

Tyler	92-C	30" – 42" curb box
Tyler	93-D	36" – 48" curb box
Tyler	93-E	36" – 54" curb box
Tyler	95-E	41" – 64" curb box
Tyler	152-Ext.	16" curb box extension
Trumbull	T-374 GCI	2 ½" curb box repair lid
Bingham & Taylor	143-R	36" – 48" roadway box

#### METER TILES

	18"X 30"	PVC meter tile
	24"X 30"	PVC meter tile
	30"X 30"	Galvanized or PVC meter tile
	36"X 30"	Galvanized or PVC meter tile

#### METER TILE – LIDS AND EXTENSION RINGS

Crouch Tyler	C204-LS 6150-18-BS	18" raised meter tile lid
Clay and Bailey GCI Casting	No. 2211 SM-1801	18" light duty manhole cover
Clay and Bailey GCI Casting	No. 2424 MBA	18"X24" meter tile extension ring
Clay and Bailey GCI Casting	No. 2430 MBA-1177	18"X30" meter tile extension ring
Clay and Bailey GCI Casting	No.2436 MBA-1178	18"X36" meter tile extension ring

## **OUTSIDE METER SETTERS AND RESETTERS**

Mueller Ford	B-2474F VB81-44-33G	5/8" mtr. cplg x 3/4" comp setter
Ford	VB81-44-44G	5/8" mtr cplg x 1" comp setter
Mueller Ford	B-2474F VB83-44-33G	3/4" mtr cplg x 3/4" comp setter
Ford	VB83-44-44G	3/4" mtr cplg x 1" comp setter
Mueller Ford	B-2474F VB84-44-44G	1" mtr cplg x 1" comp setter

## **APPROVAL REQUIRED BY UTILITIES DIRECTOR** **INSIDE METER SETTERS AND RESETTERS**

Ford	Resetter-51	5/8" mtr basement resetter
Ford	Resetter-53	3/4" mtr basement resetter
Ford	Resetter-54	1" mtr basement resetter
Ford	PB-1	5/8" mtr plumbhorn setter
Ford	DH-1A-18	5/8" mtr drophorn setter, Type A
Ford	DH-1B-18	5/8" mtr drophorn setter, Type B
Ford	DH-3A-18	3/4" mtr drophorn setter, Type A
Ford	DD-3B-18	3/4" mtr drophorn setter, Type B
Ford	HH1-34	5/8" mtr handyhorn setter
Ford	HH3-34	3/4" mtr handyhorn setter
Ford	KH-1	5/8" mtr kornhorn setter
Ford	KH-3	3/4" mtr kornhorn setter

**APPROVAL REQUIRED BY UTILITIES DIRECTOR**  
**INSIDE METER SETTERS AND RESETTERS (CONTINUED)**

Ford	KH-4	1" mtr kornerhorn setter
Mueller	H-1413	5/8"- 3/4" mtr cplg
Mueller	H-14168	5/8"- 3/4" mtr cplg
Mueller	H-1414	5/8"- 3/4" mtr cplg
Mueller	H-1412	5/8"- 1" mtr cplg
McDonald	Series 40 C-Style	5/8"- 1" mtr cplg
McDonald	Series 41 K-Style	5/8"- 3/4" mtr cplg
McDonald	Series 42 K-Style	5/8"- 3/4" mtr cplg
McDonald	Series 43 M-Style	5/8"- 1" mtr cplg
McDonald	Series 44 PU-Style	5/8"- 1" mtr cplg

**CURB VALVES**

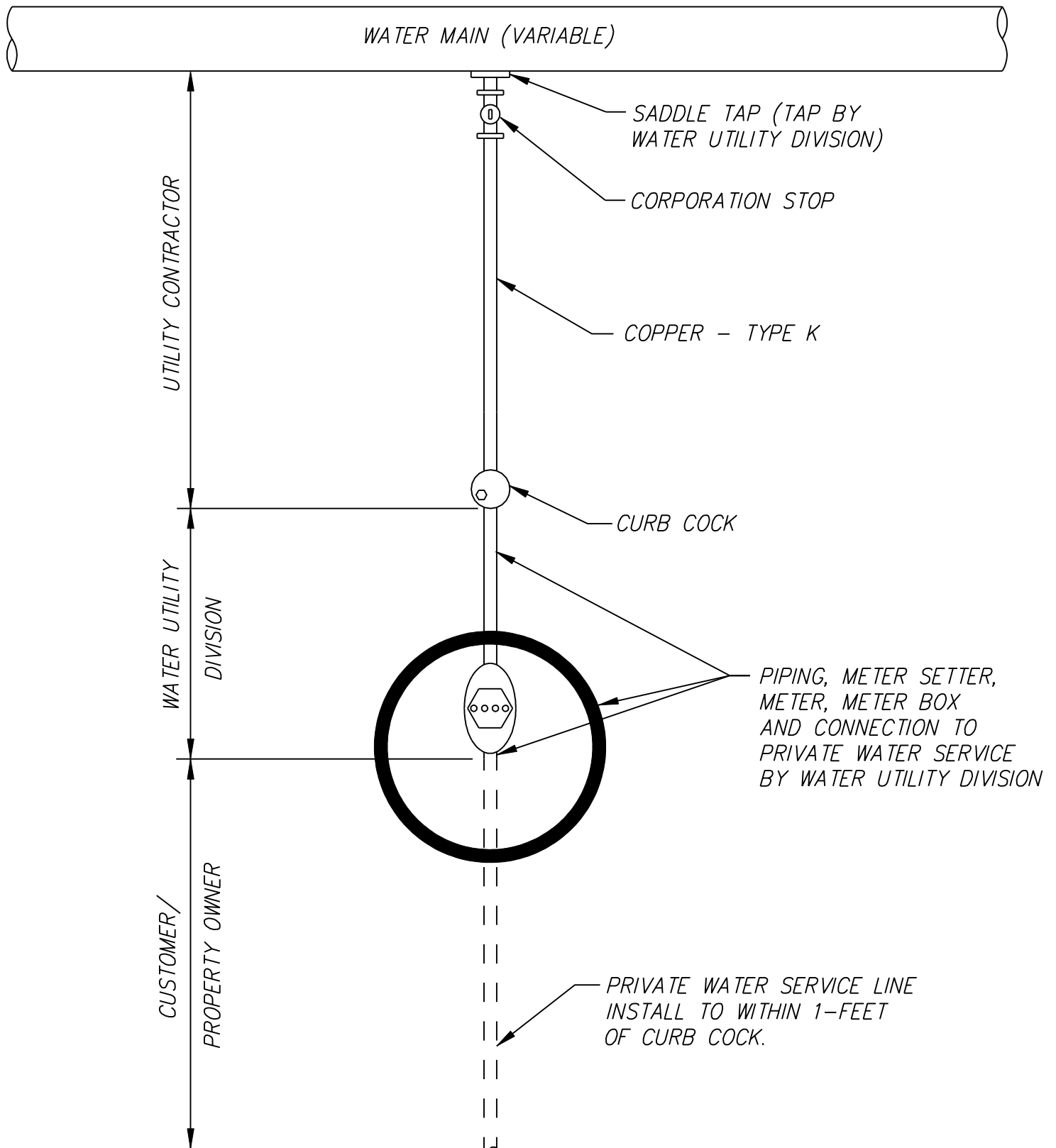
Mueller	H-10291	1" IPF Oriseal curb valve
Mueller	H-15201	1" flare Oriseal curb valve
Mueller	H-15176	1" flare x IPF Oriseal curb valve

**TAPPING SLEEVES**

Mueller	340SS	Stainless steel tapping sleeve
Smith-Blair	663, 665	Stainless steel tapping sleeve
Ford	FTSS	Stainless steel tapping sleeve

**TAPPING VALVES**

Clow	Iron Body AWWA C509	Resilient Wedge Gate Valve
Mueller	Iron Body AWWA C509	Resilient Wedge Gate Valve
AVK	Iron Body AWWA C509	Resilient Wedge Gate Valve
U.S. Pipe	Iron Body AWWA C509	Resilient Wedge Gate Valve

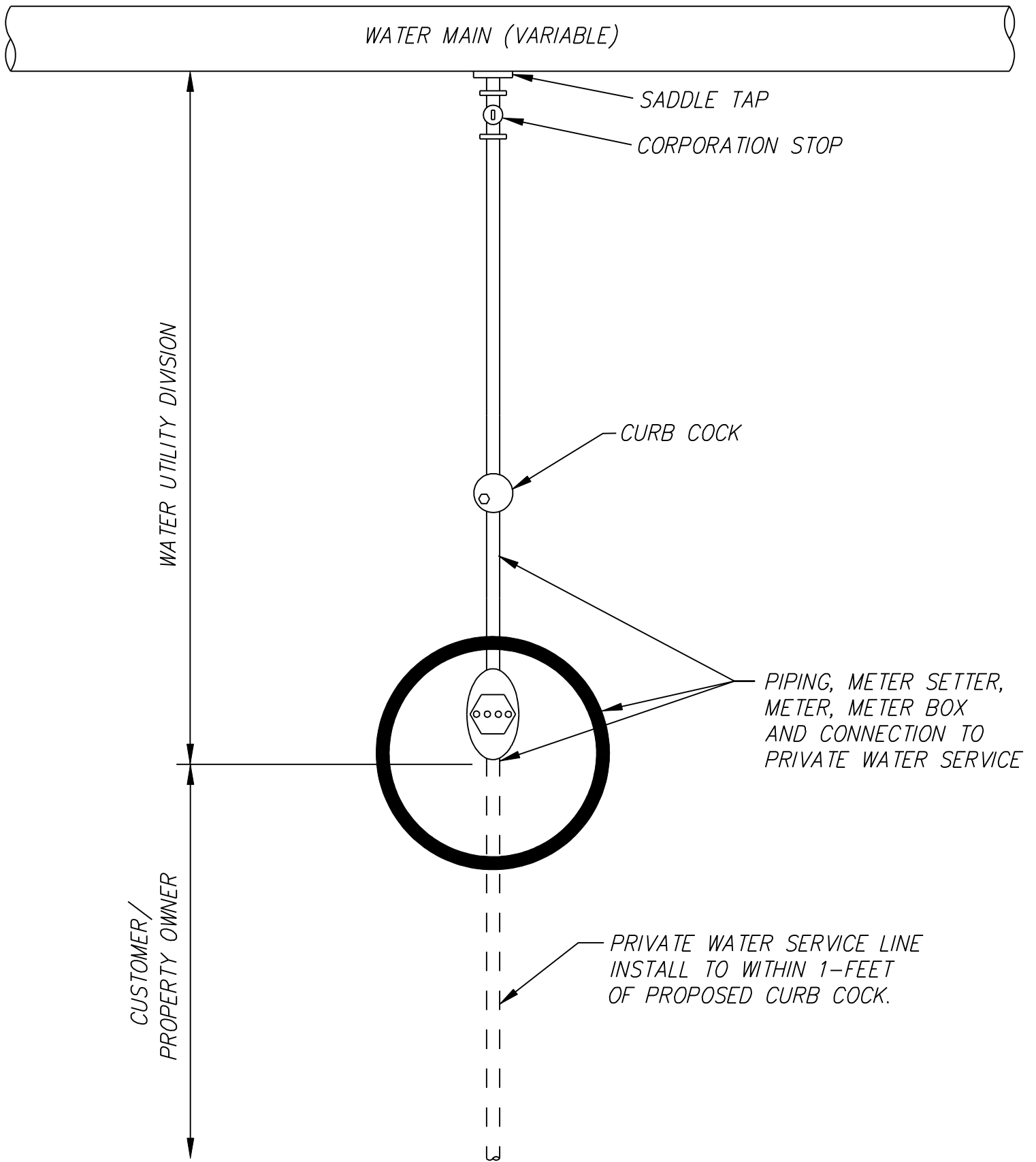


RESIDENTIAL  
**NEW METERS**  
*Not to Scale*

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Jan 2005

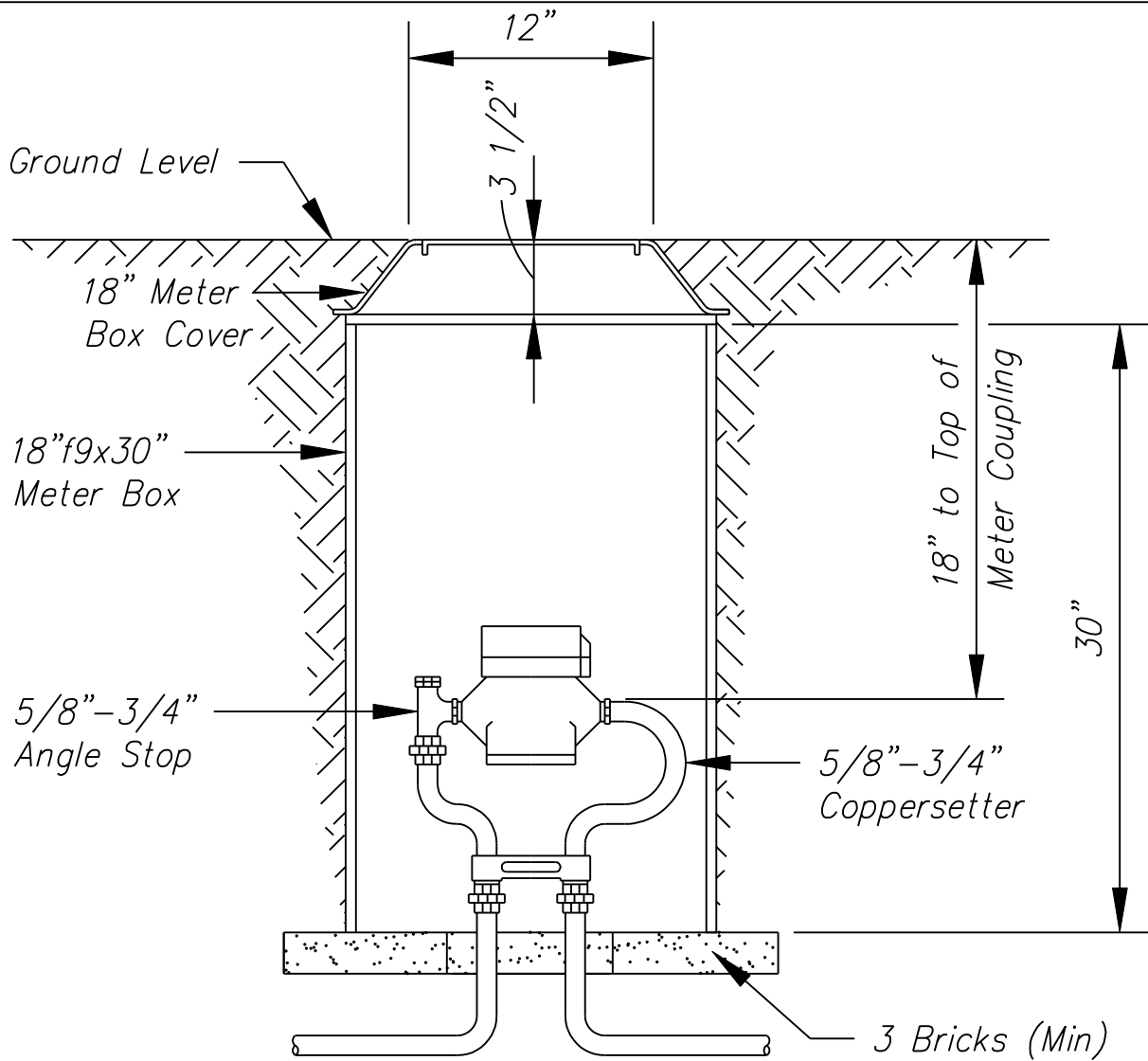


RESIDENTIAL  
EXISTING METERS

Not to Scale

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NOTE:

End to End Space for 5/8" Meter: 7 1/2"

End to End Space for 3/4" Meter: 9"

COMMERCIAL / INDUSTRIAL

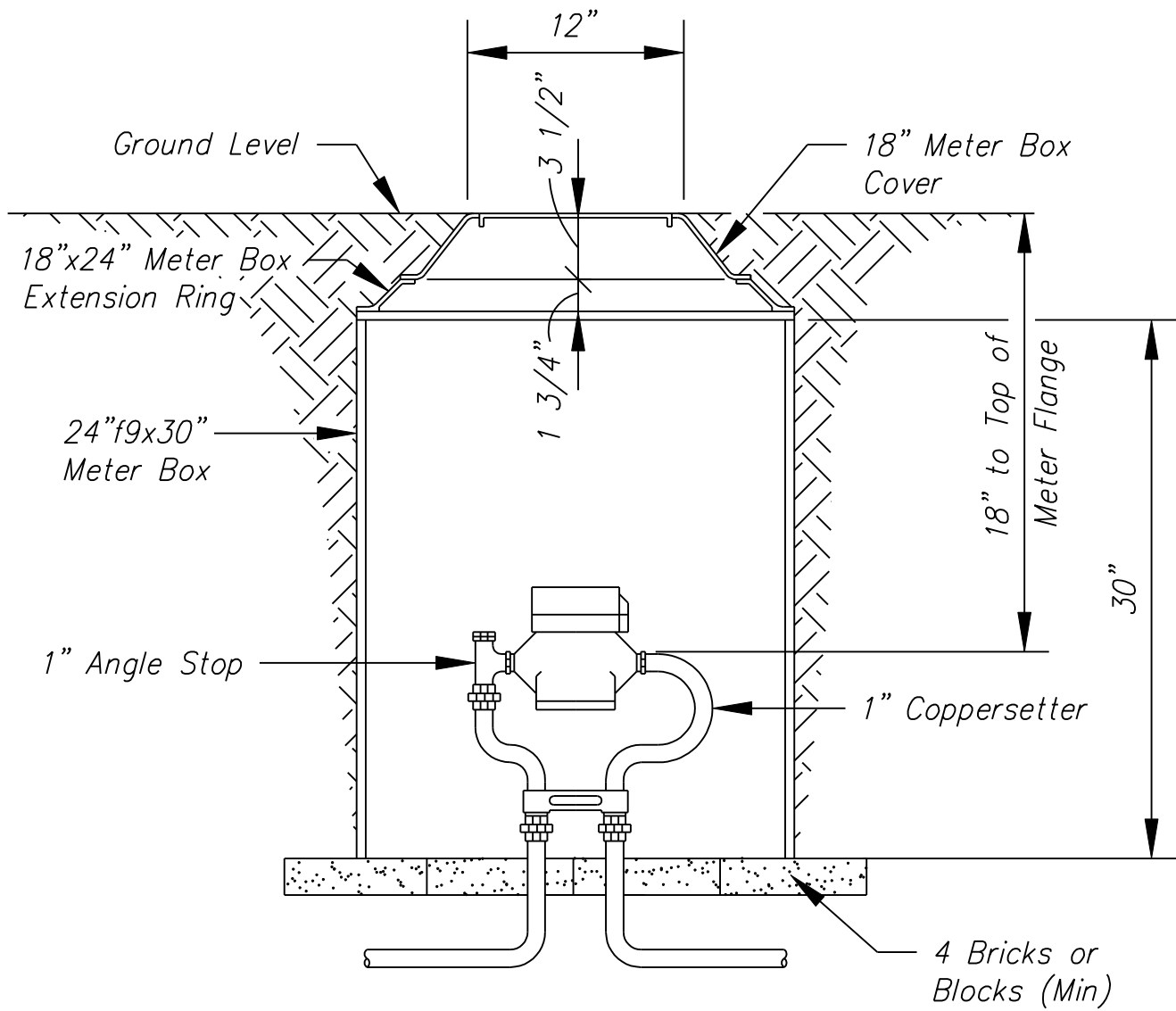
5/8" & 3/4" METER

Not to Scale

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Jan. 2005



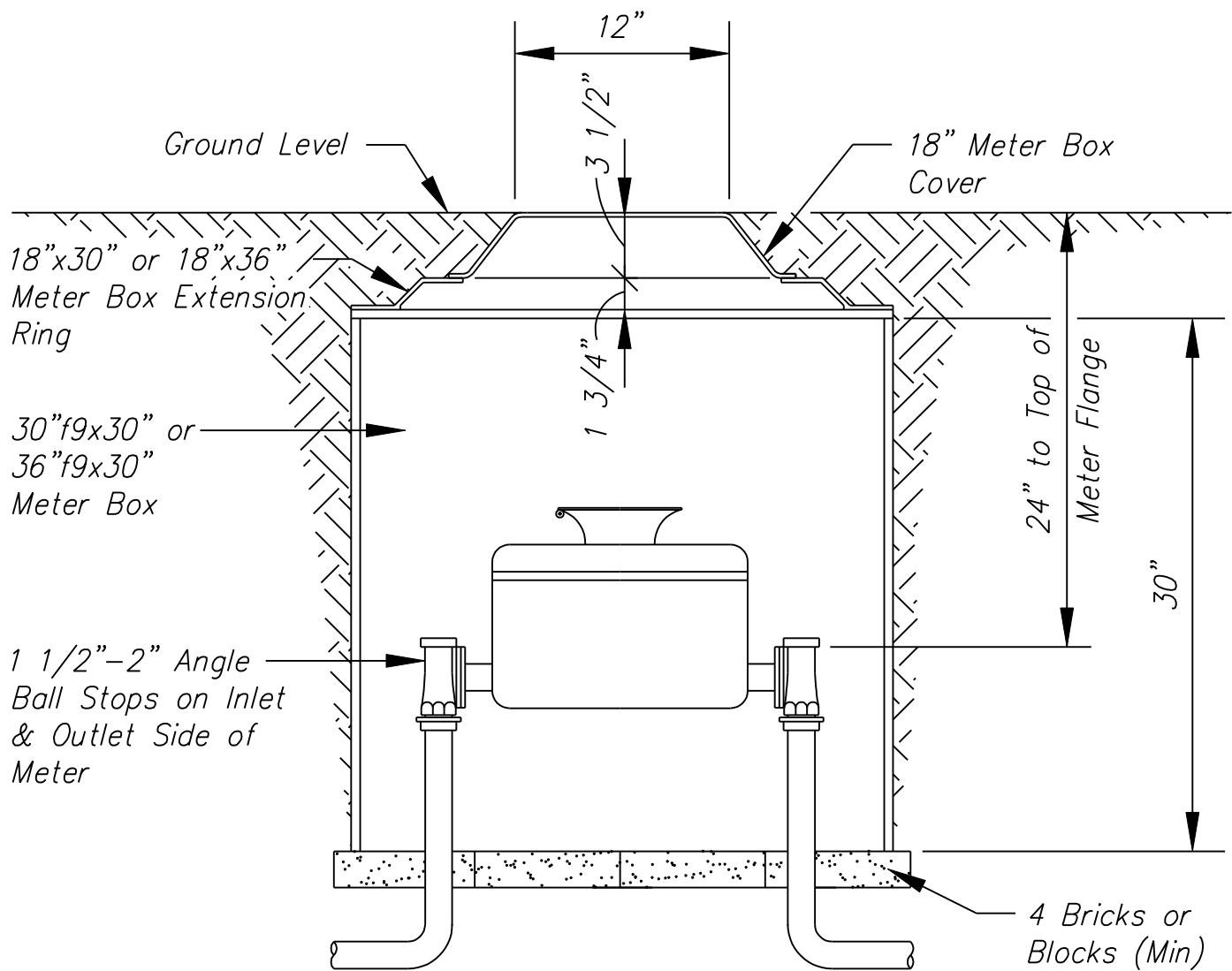
NOTE:

End to End Space for 1" Meter: 10 3/4"

COMMERCIAL / INDUSTRIAL

1" METER

Not to Scale 02018.DWG



NOTE:

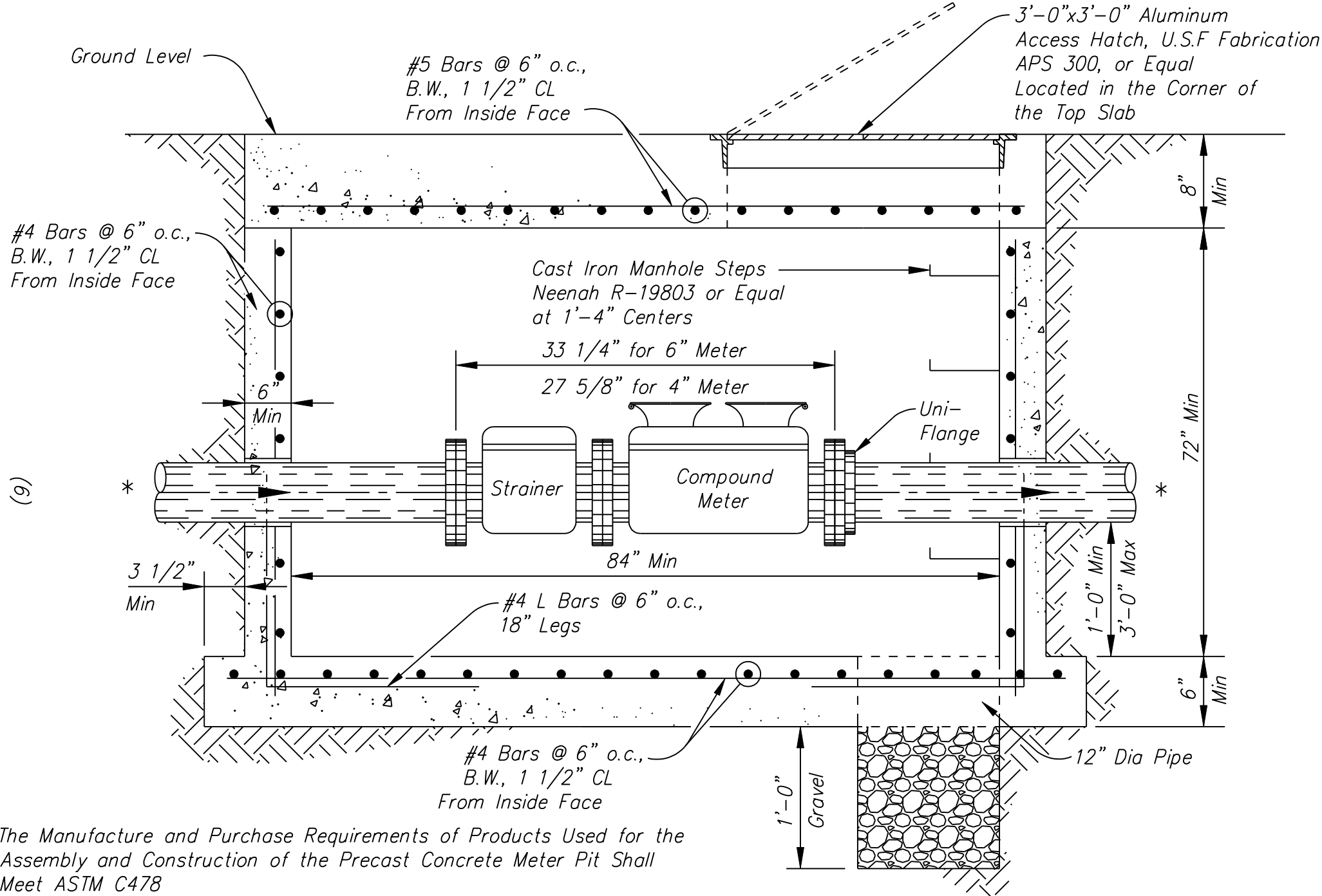
End to End Space for 1 1/2" Meter: 13"

End to End Space for 2" Meter: 17"

COMMERCIAL / INDUSTRIAL

1 1/2" & 2" METERS  
 Not to Scale

02020.DWG



MINIMUM DIMENSIONS:

LENGTH INSIDE TO INSIDE OF WALLS = 84"

WIDTH INSIDE TO INSIDE OF WALLS = 48"

HEIGHT TOP OF FLOOR TO GROUND LINE = 80"

COMMERCIAL / INDUSTRIAL

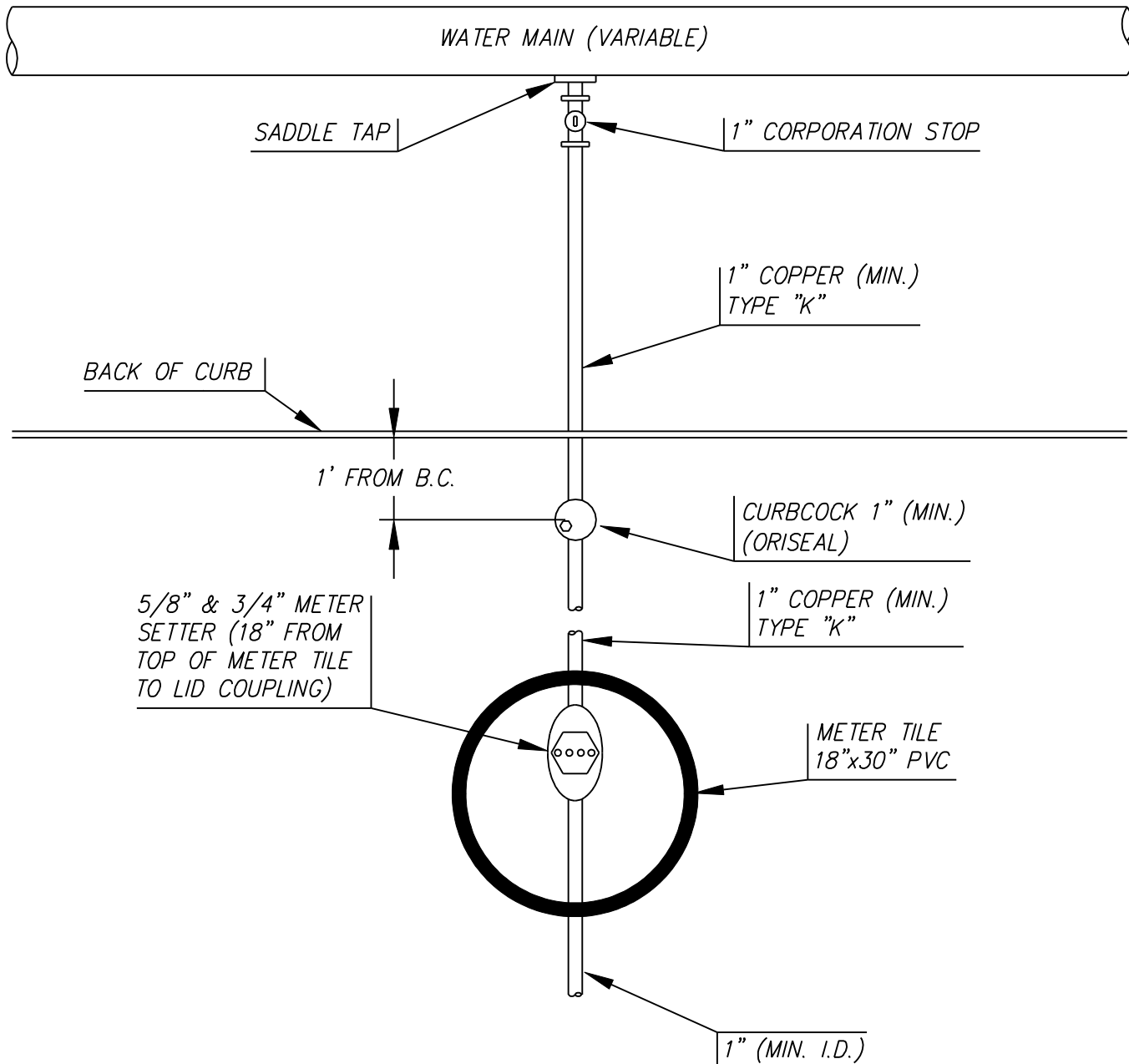
4" & 6" METER

Not to Scale

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Install 4" or 6" AWWA Gate Valve/Box on  
Both Inlet and Outlet Side of Meter

Jan. 2005

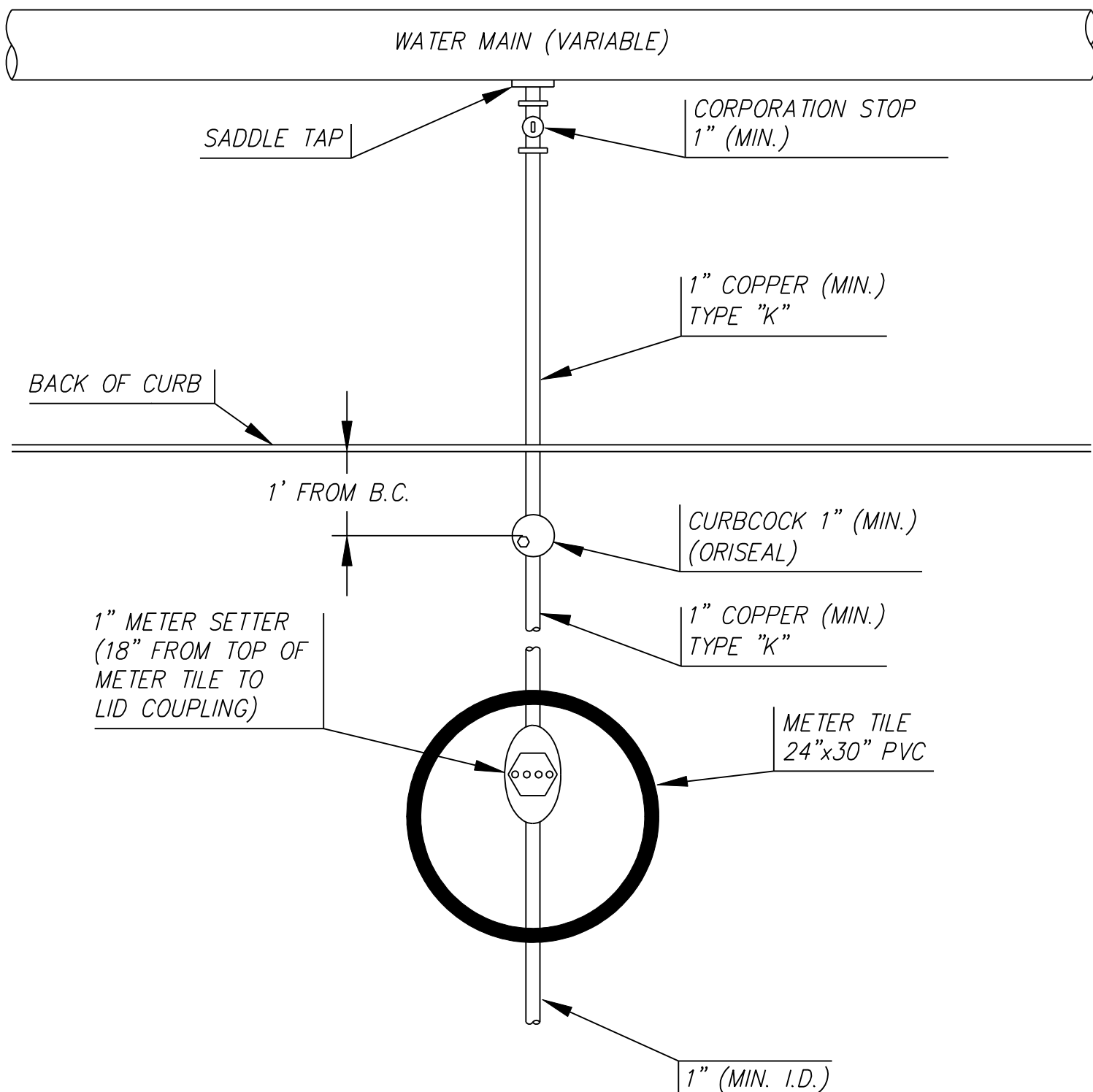


COMMERCIAL / INDUSTRIAL

# STANDARD FOR 5/8" & 3/4" METER SETTINGS

Not to Scale

02002.DWG

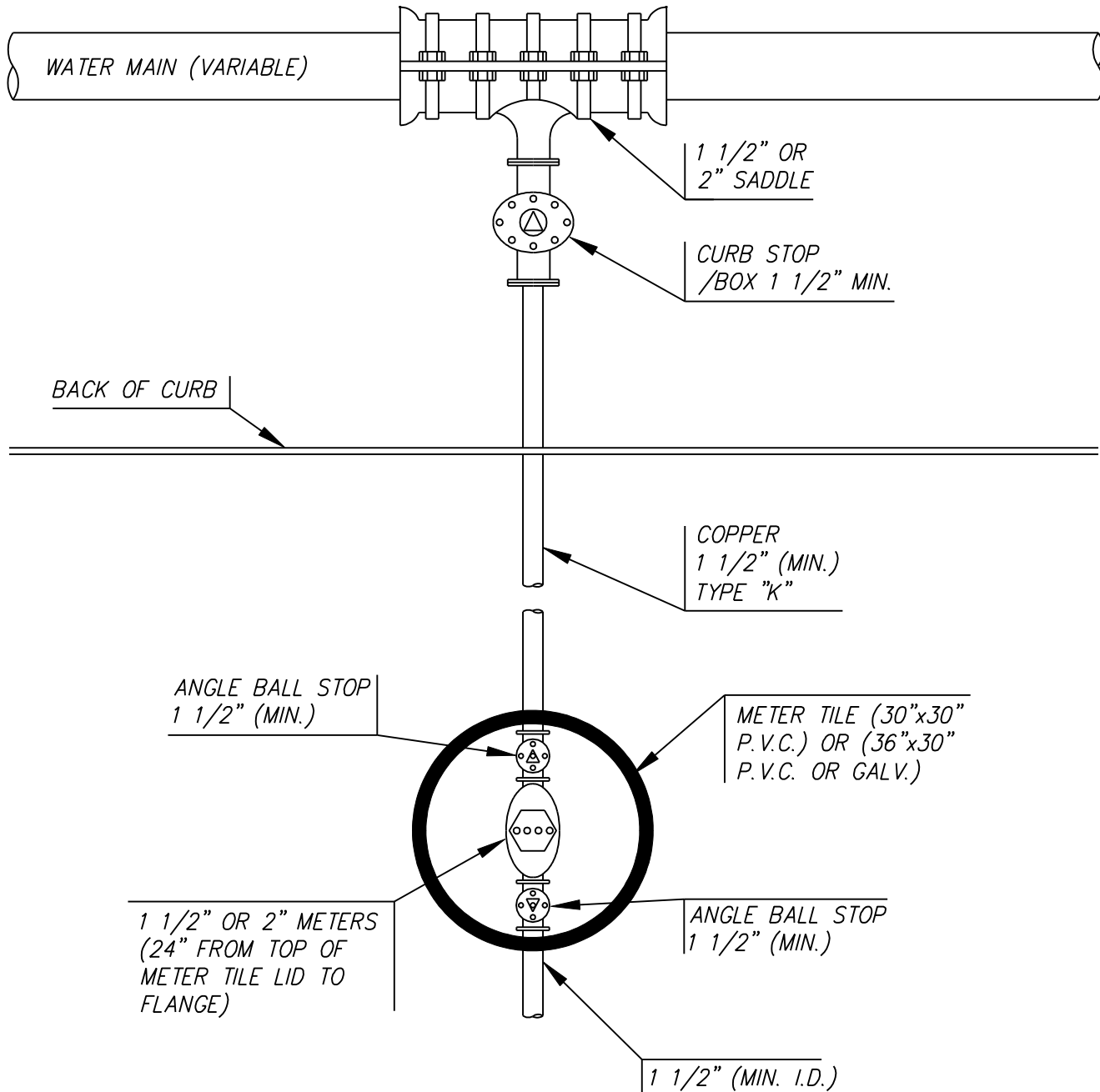


COMMERCIAL / INDUSTRIAL

# STANDARD FOR 1" METER SETTINGS

Not to Scale

02003.DWG

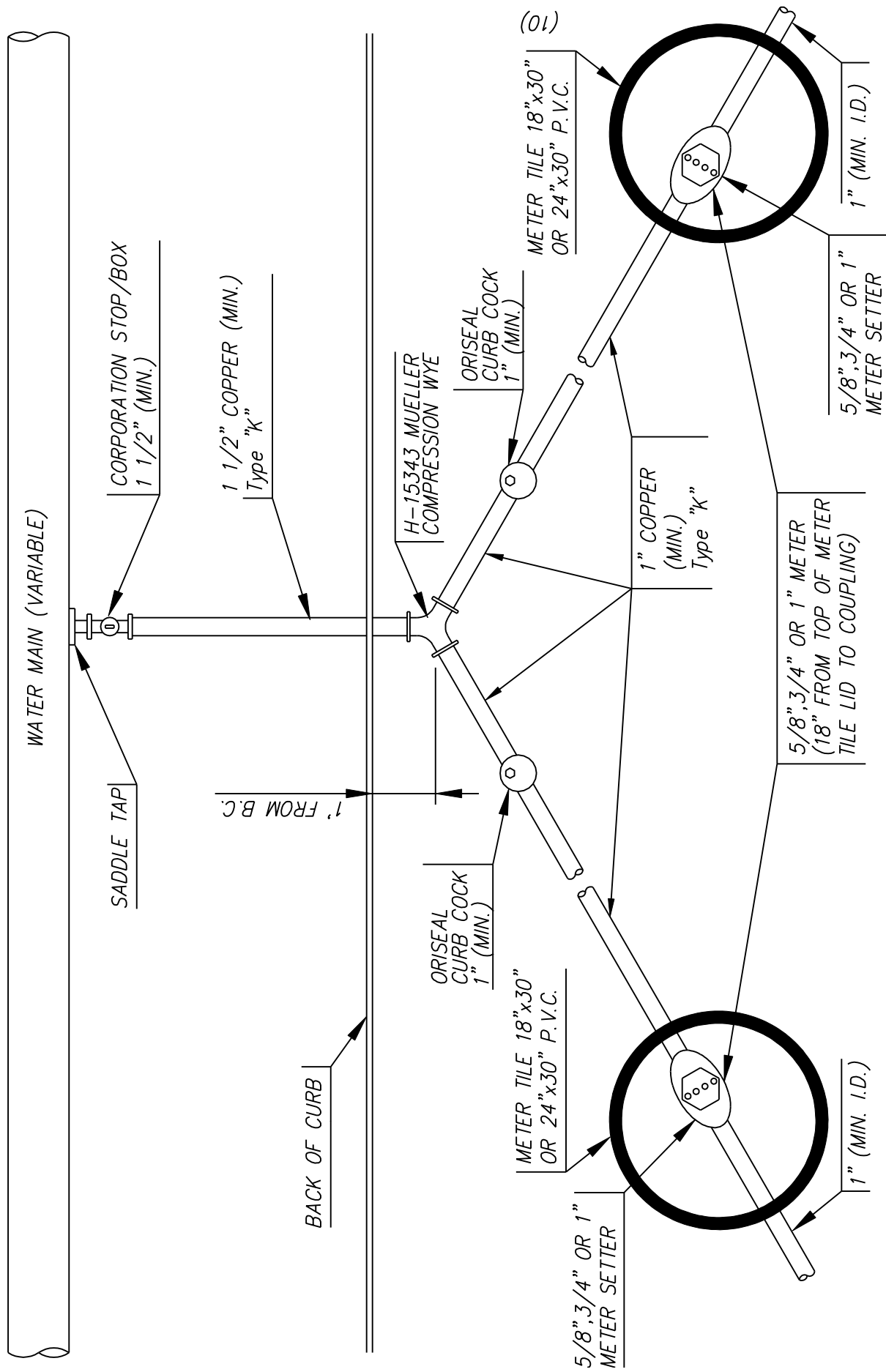


COMMERCIAL / INDUSTRIAL

# STANDARD FOR 1 1/2" AND 2" METER SETTINGS

Not to Scale

02004.DWG

COMMERCIAL / INDUSTRIAL

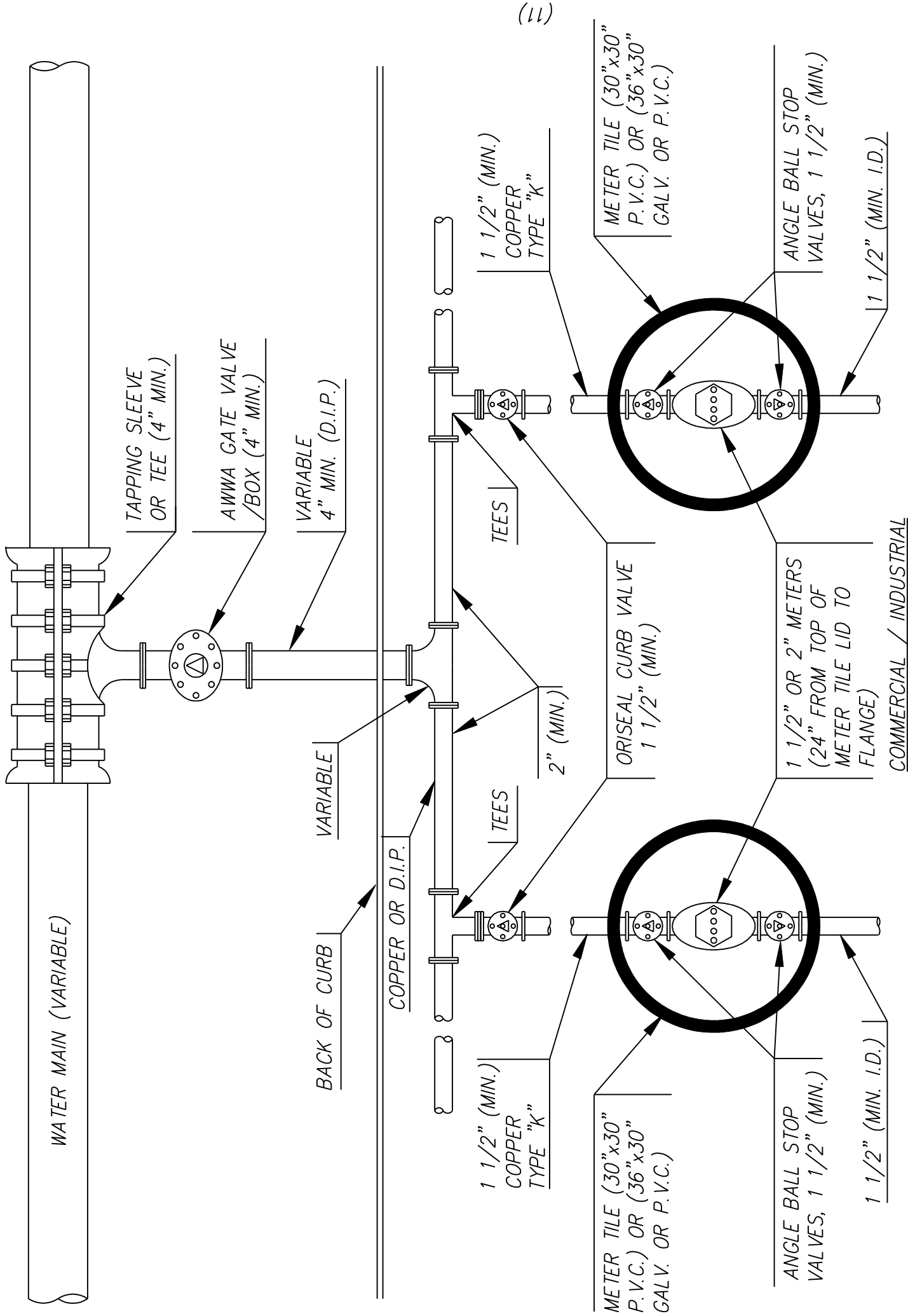
STANDARD FOR "Y" BRANCH 5/8", 3/4" & 1" MULTIPLE METER SETTINGS

Not to Scale

02006.DWG

Jan 2005

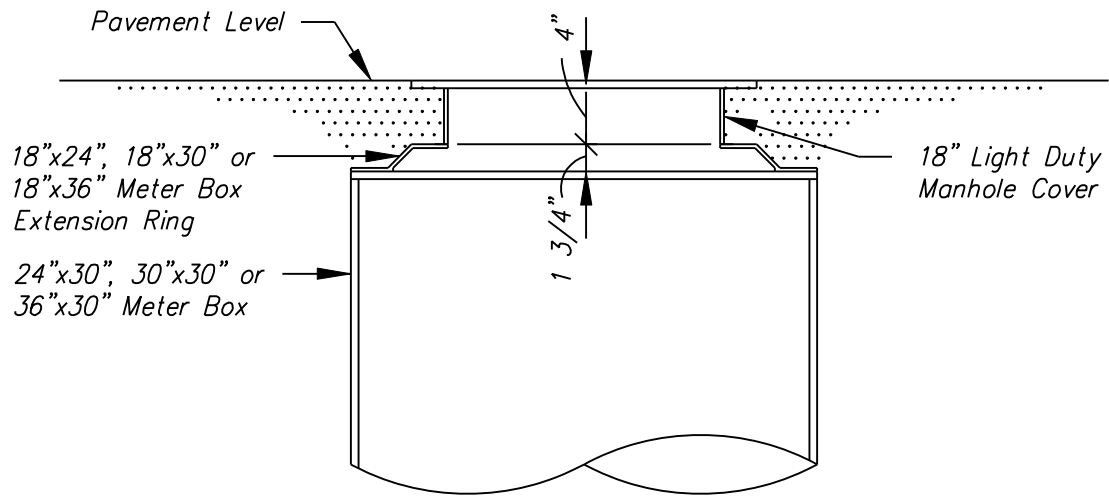




STANDARD FOR 1 1/2" AND 2" MULTIPLE METER SETTINGS

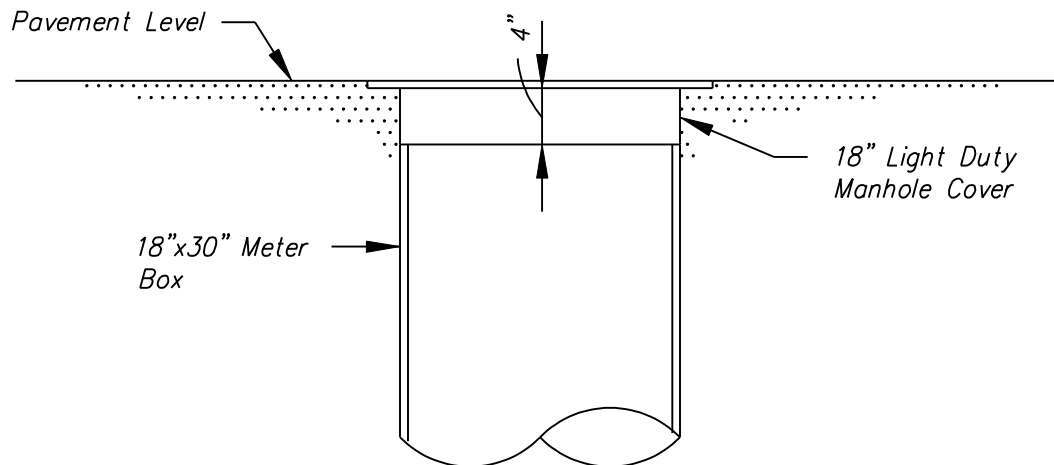
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SET IN CONCRETE OR ASPHALT PAVED AREA

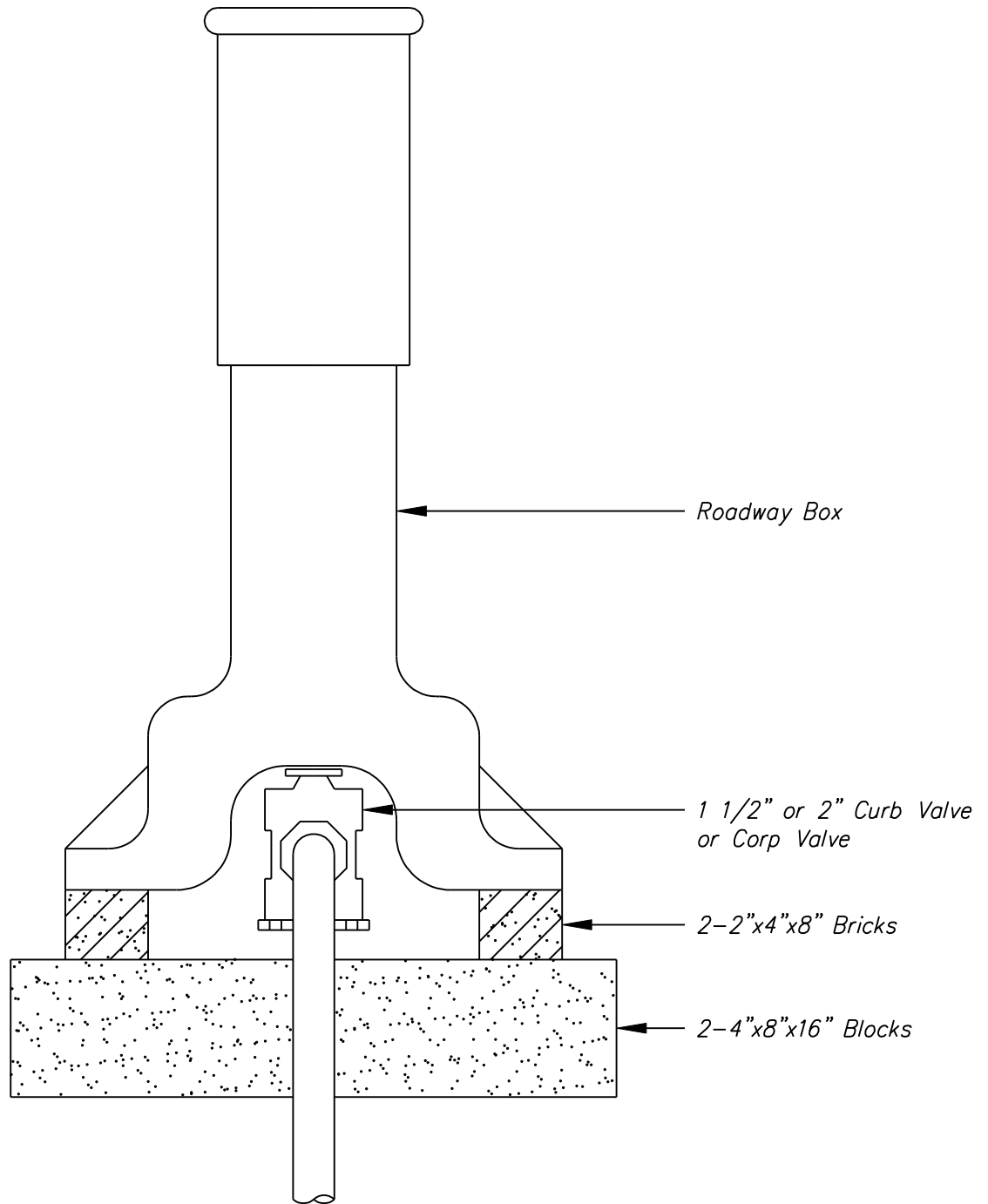
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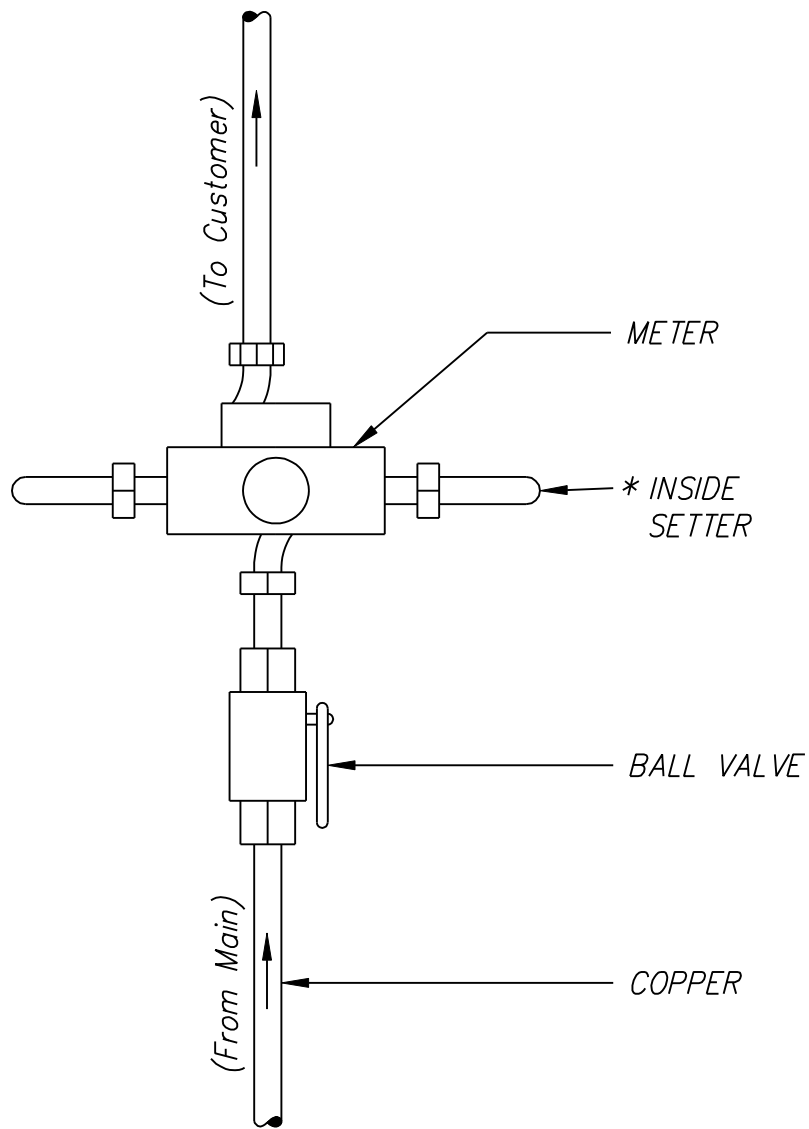
SET IN CONCRETE OR ASPHALT PAVED AREA

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ROADWAY BOX  
Not to Scale 02022.DWG



\* SEE PAGE 2 & 3 OF APPROVED MATERIALS LIST.

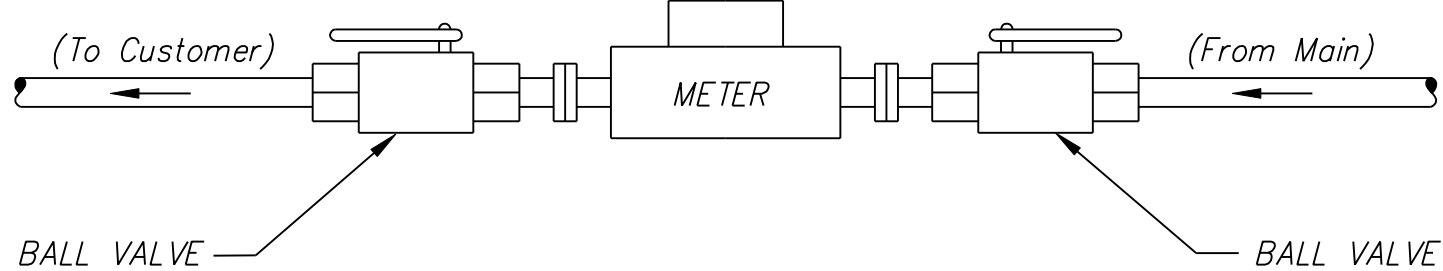
APPROVAL REQUIRED BY UTILITIES DIRECTOR

COMMERCIAL / INDUSTRIAL

INSIDE SETTERS — 5/8", 3/4" & 1" METER

Not to Scale

02023.DWG



NOTE:

Only Brass Meter Flanges shall be used in the Fabrication of Meter Sets for 1 1/2" & 2" Meters.

NOTE:

Provide Adequate Weight Support for 1 1/2" & 2" Meters.

APPROVAL REQUIRED BY UTILITIES DIRECTOR

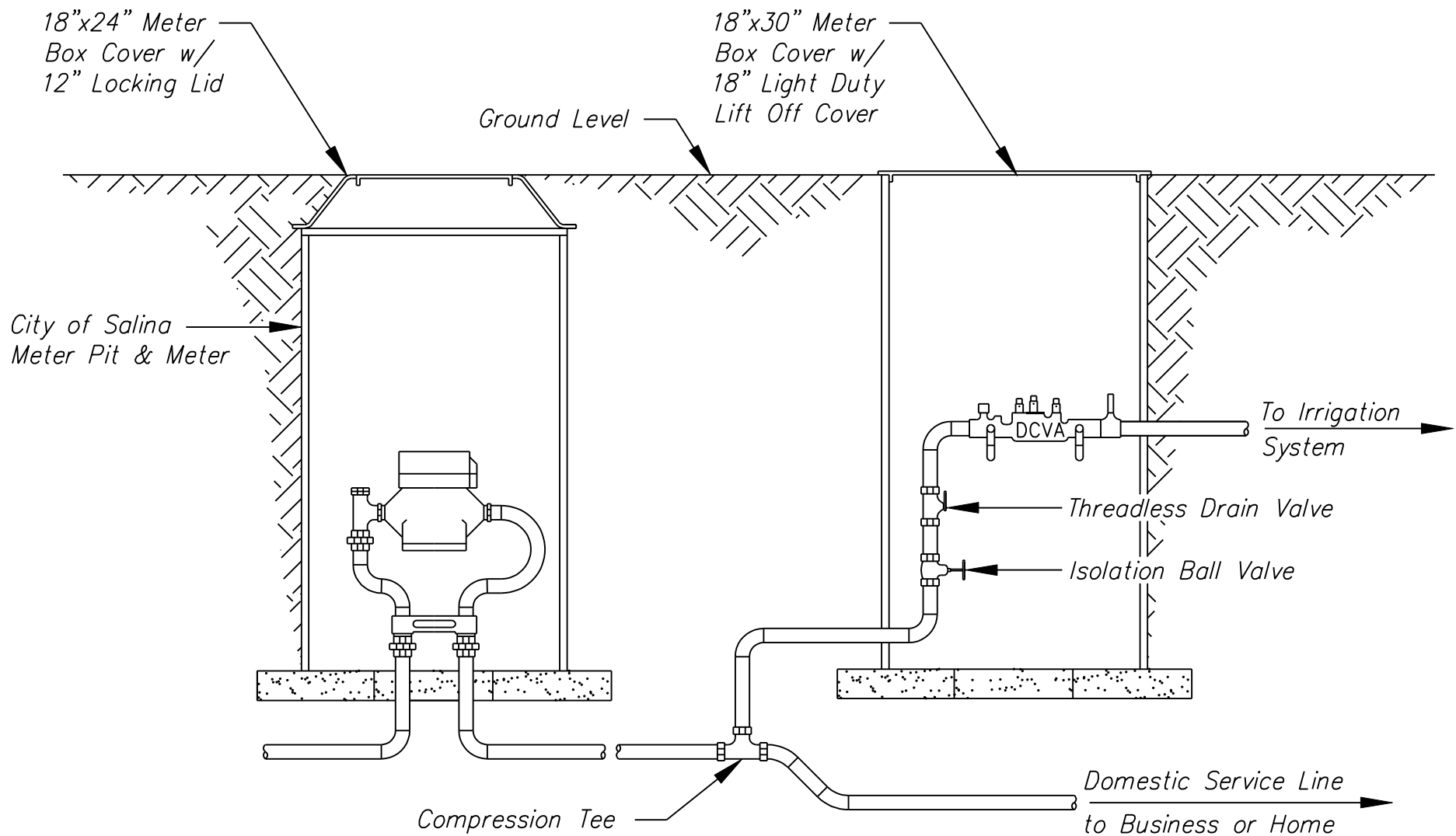
COMMERCIAL / INDUSTRIAL

INSIDE SETTERS — 1 1/2" & 2" METER

Not to Scale

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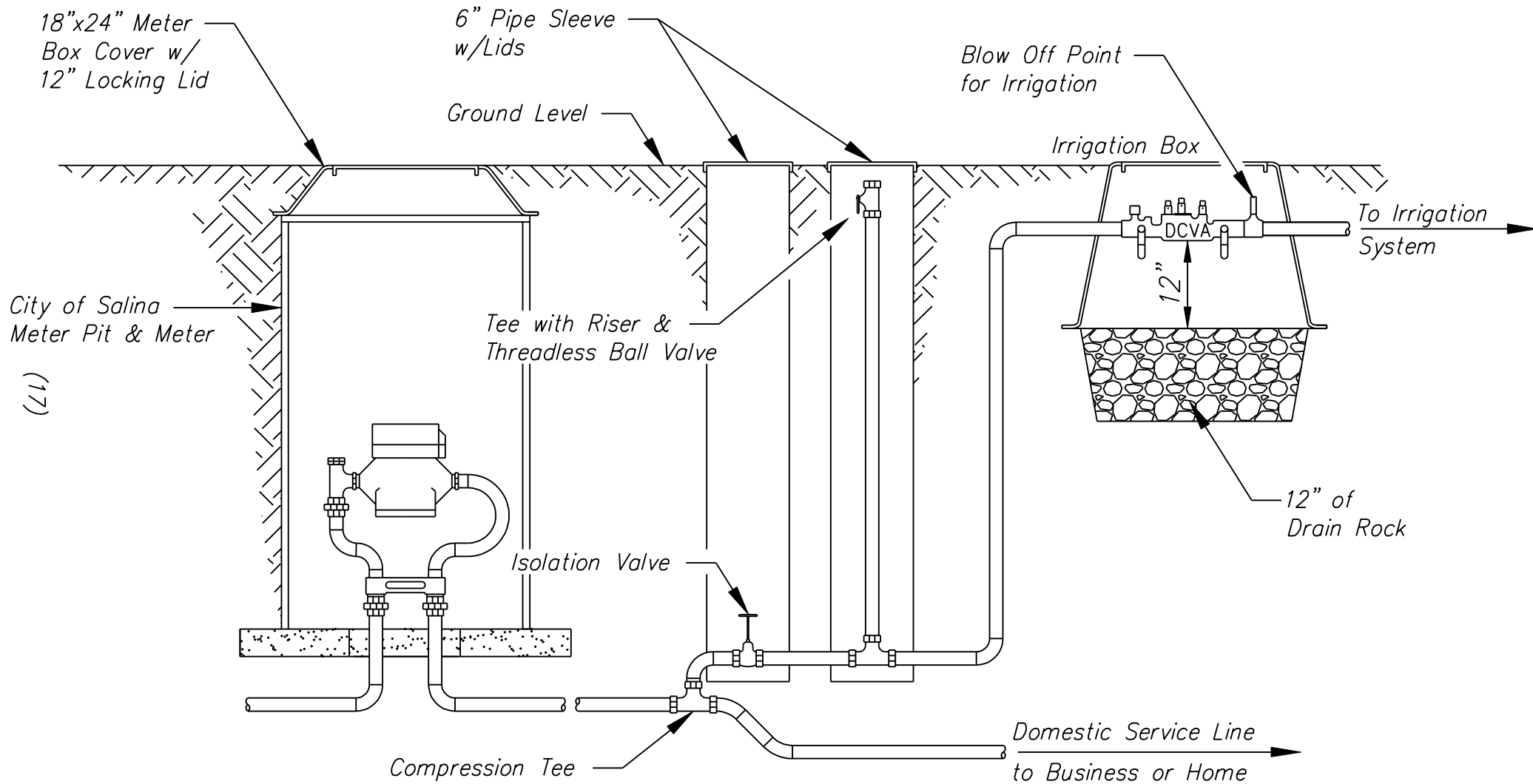
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RECOMMENDED  
IRRIGATION DETAILS — OPTION 1  
Not to Scale

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Aug. 2004



# RECOMMENDED IRRIGATION DETAILS – OPTION 2

Not to Scale

02033.DWG

Aug. 2004